FIG. 1A
(PRIOR ART)

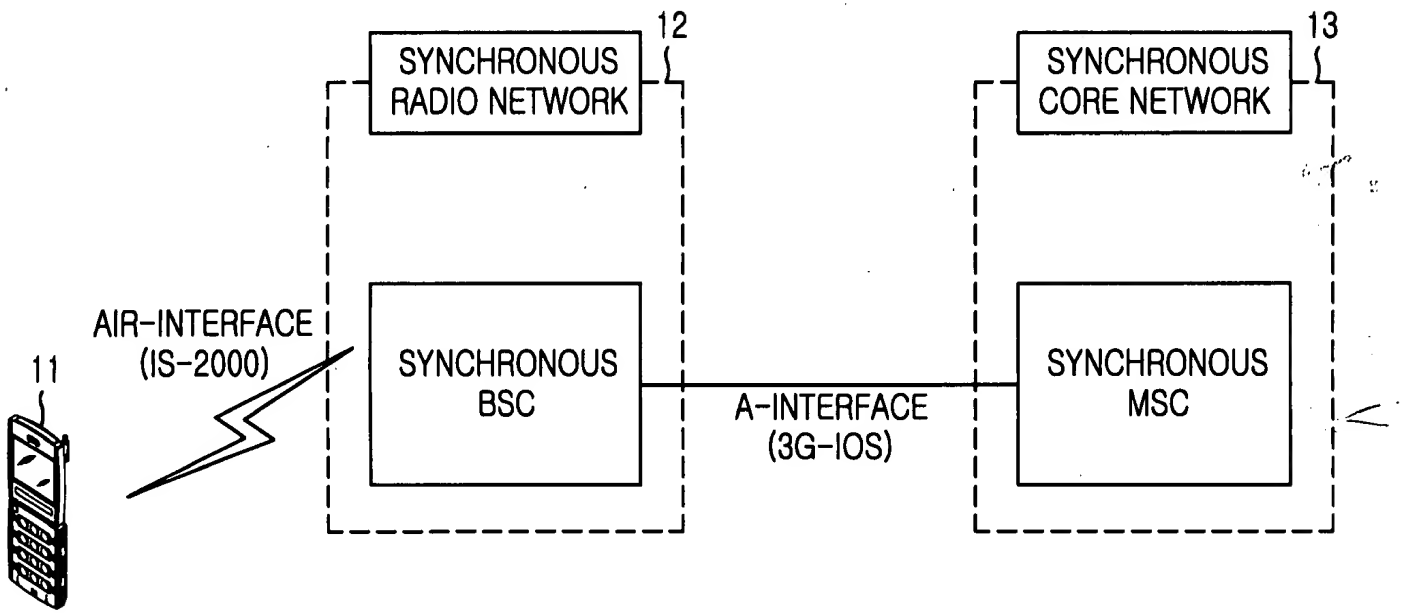


FIG. 1B
(PRIOR ART)

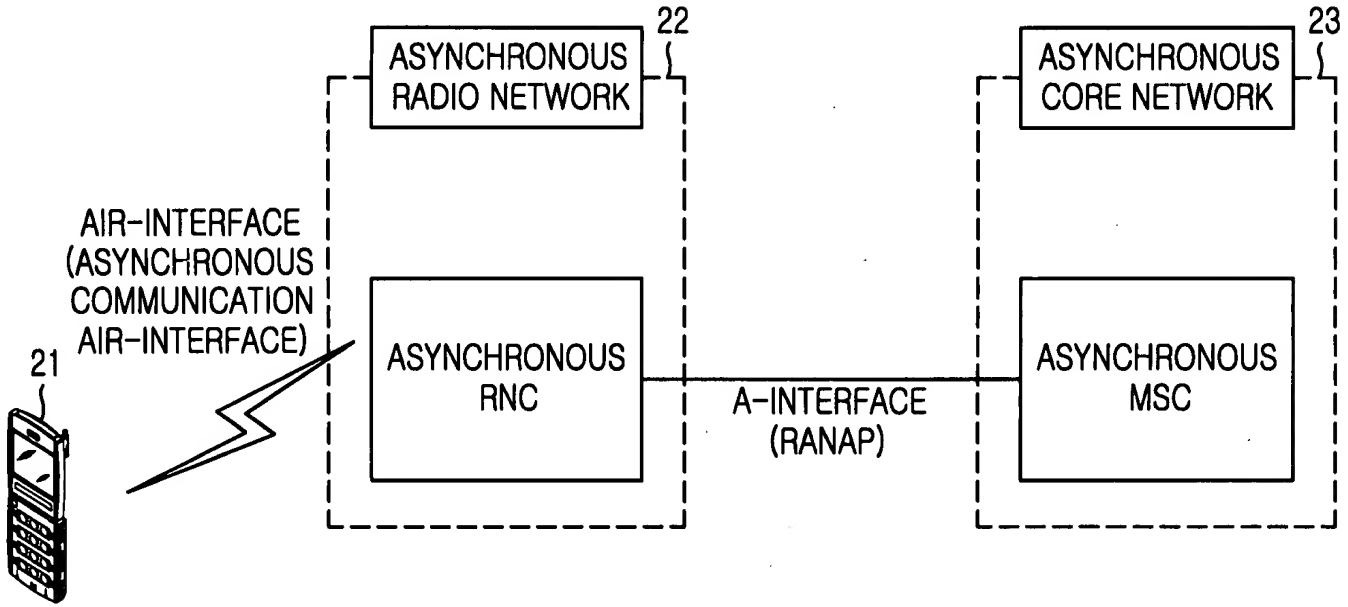


FIG. 2A
(PRIOR ART)

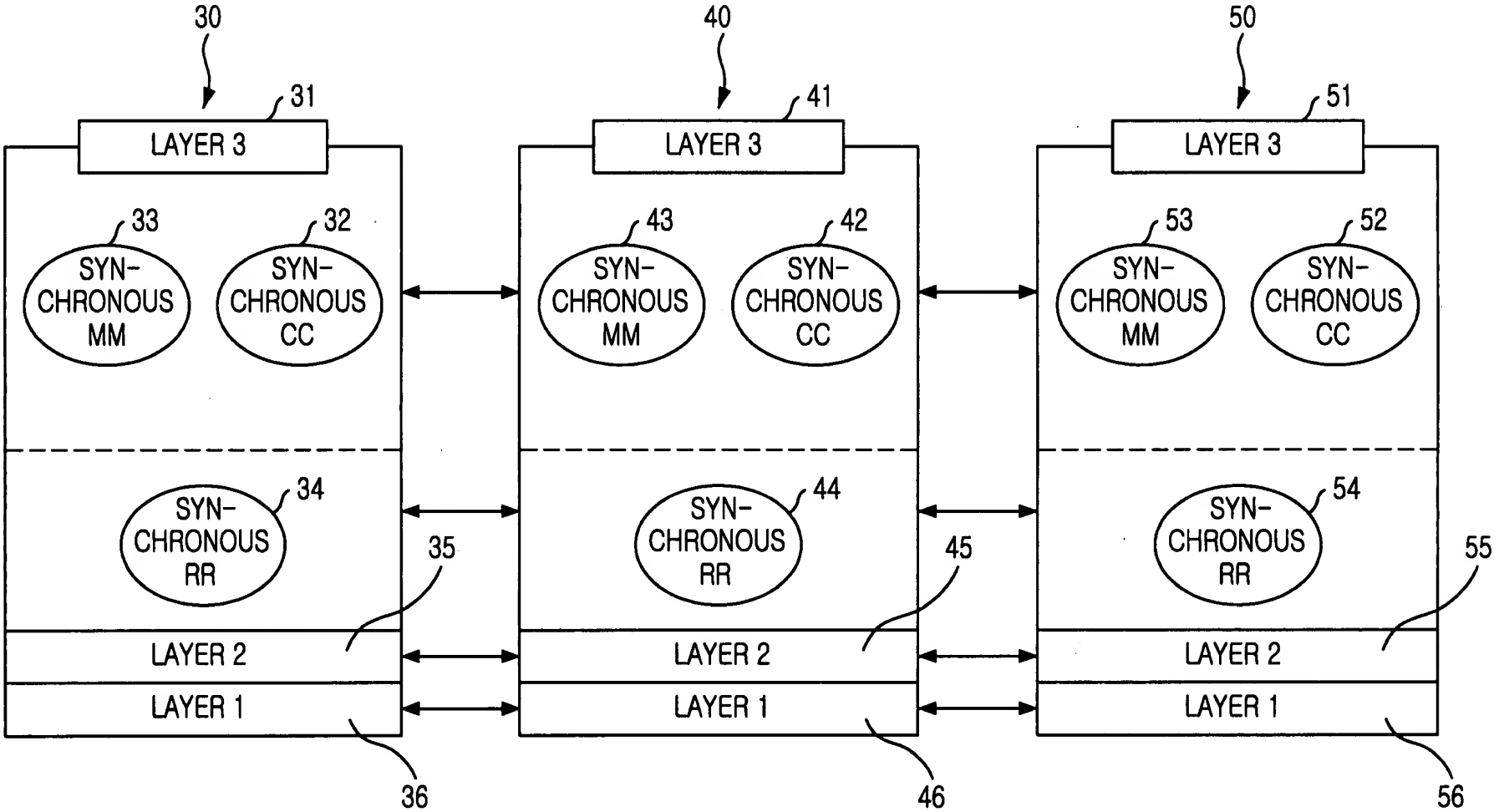


FIG. 2B
(PRIOR ART)

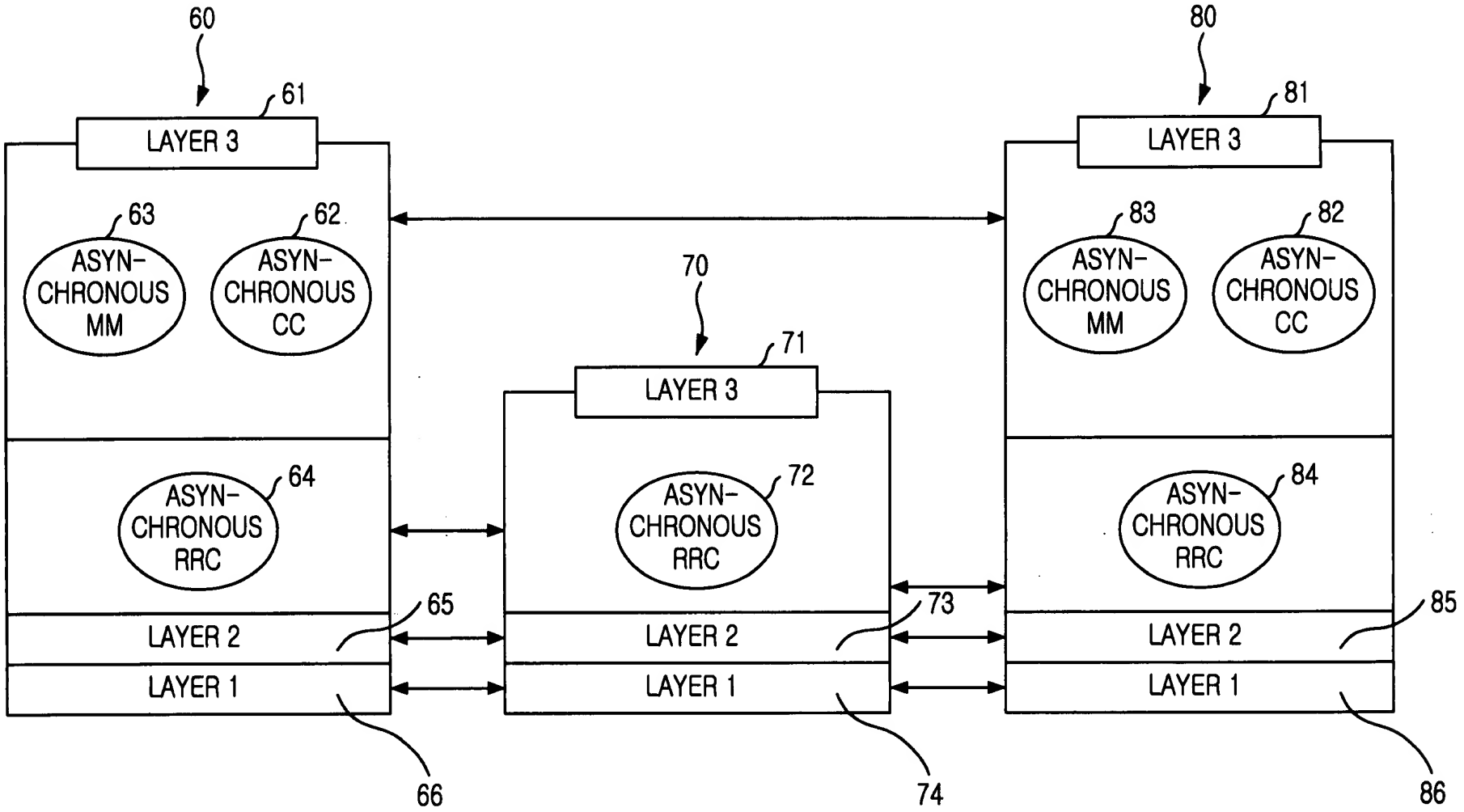


FIG. 3A

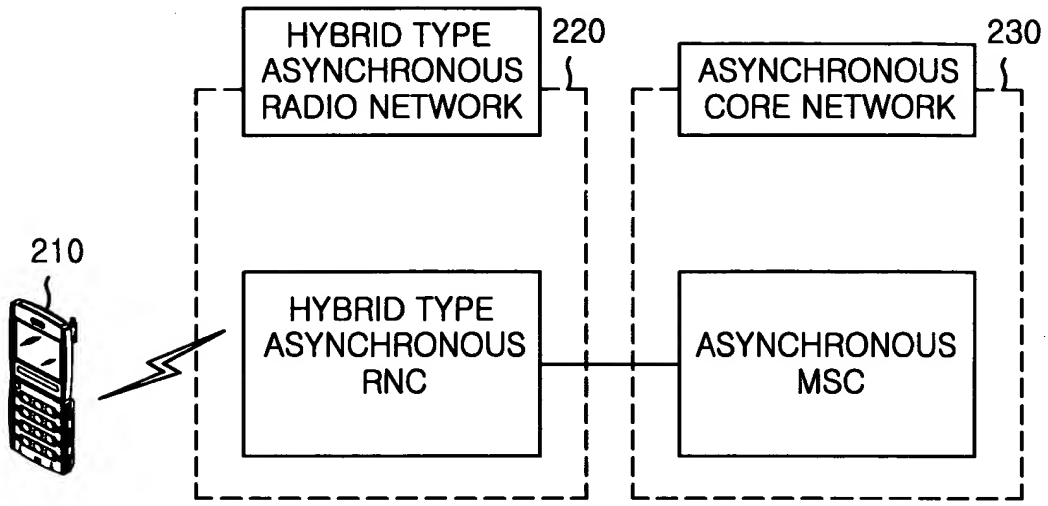

HYBRID TYPE ASYNCHRONOUS RADIO NETWORK
220
ASYNCHRONOUS CORE NETWORK
230
210
HYBRID TYPE ASYNCHRONOUS RNC
ASYNCHRONOUS MSC

FIG. 3B

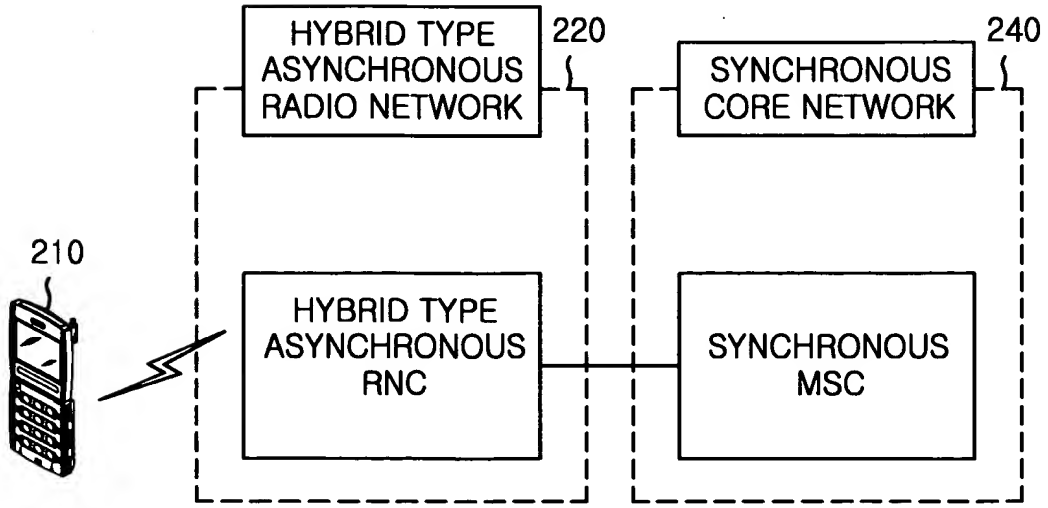

HYBRID TYPE ASYNCHRONOUS RADIO NETWORK
220
SYNCHRONOUS CORE NETWORK
240
210
HYBRID TYPE ASYNCHRONOUS RNC
SYNCHRONOUS MSC

FIG. 4A

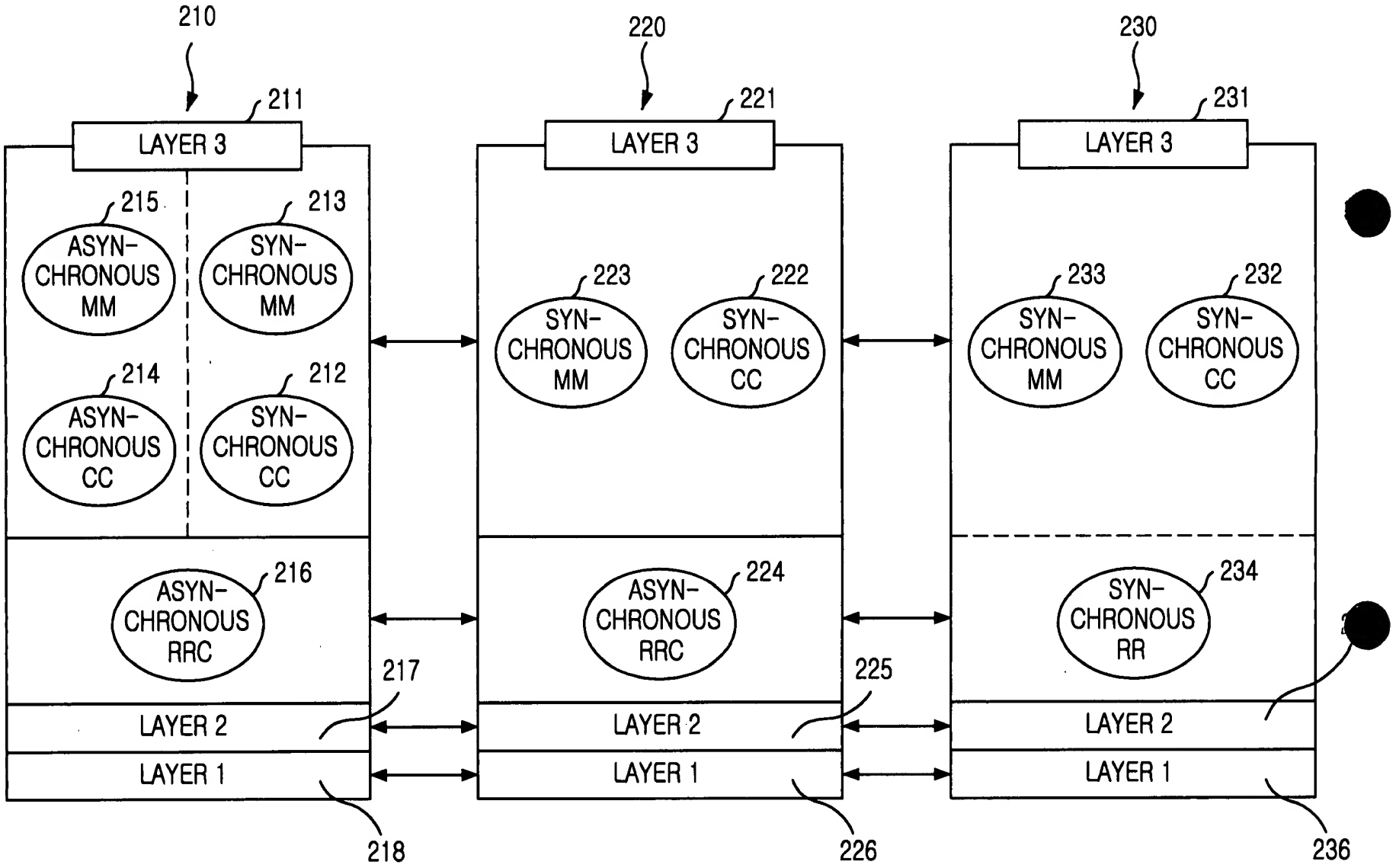

210
211
LAYER 3
215
ASYN-CHRONOUS MM
213
SYN-CHRONOUS MM
214
ASYN-CHRONOUS CC
212
SYN-CHRONOUS CC
216
ASYN-CHRONOUS RRC
217
LAYER 2
LAYER 1
218
220
221
LAYER 3
223
SYN-CHRONOUS MM
222
SYN-CHRONOUS CC
224
ASYN-CHRONOUS RRC
225
LAYER 2
LAYER 1
226
230
231
LAYER 3
233
SYN-CHRONOUS MM
232
SYN-CHRONOUS CC
234
SYN-CHRONOUS RR
LAYER 2
LAYER 1
236

FIG. 4B

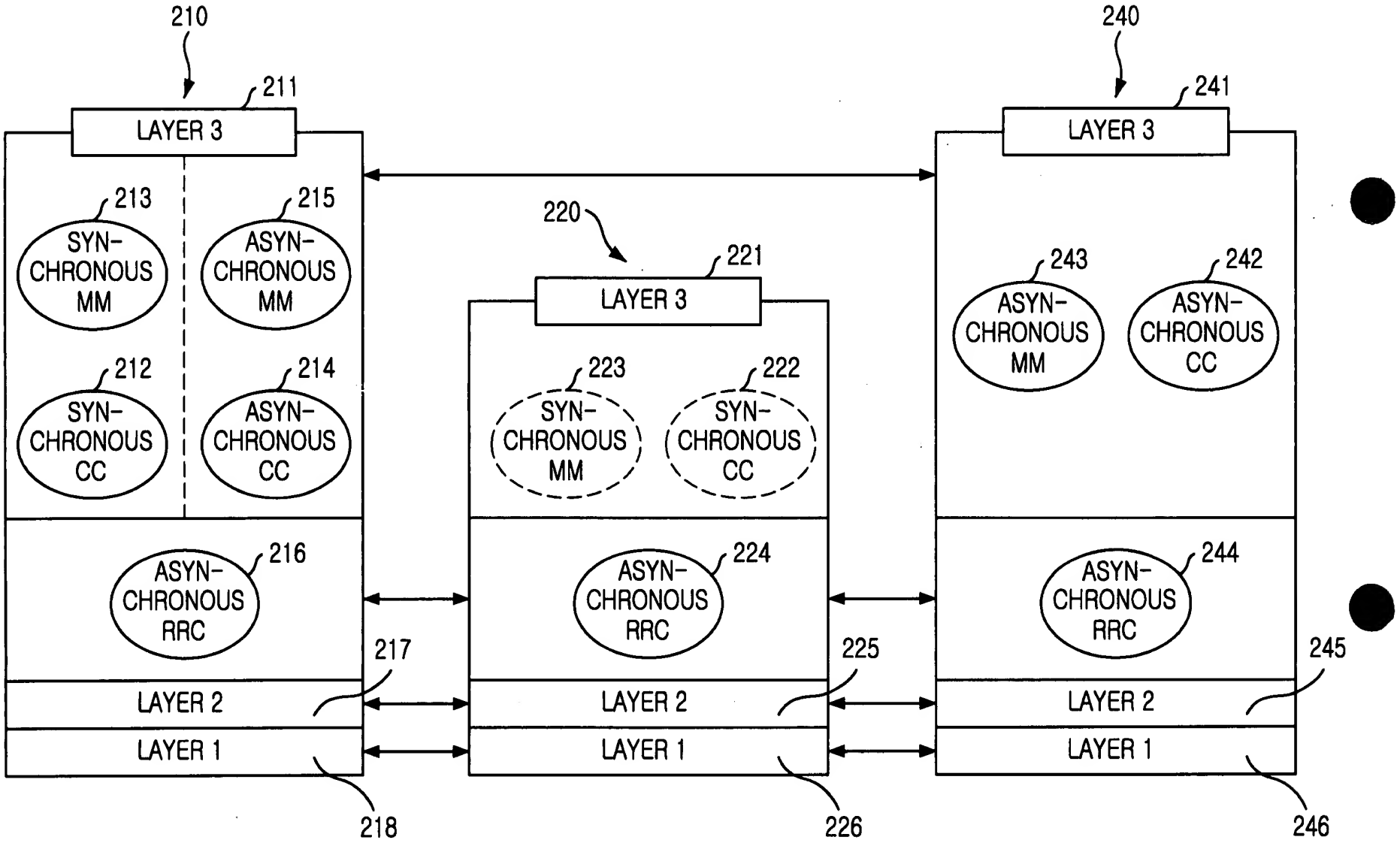

210
211
LAYER 3
213
SYN-CHRONOUS MM
215
ASYN-CHRONOUS MM
212
SYN-CHRONOUS CC
214
ASYN-CHRONOUS CC
216
ASYN-CHRONOUS RRC
217
LAYER 2
LAYER 1
218
220
221
LAYER 3
223
SYN-CHRONOUS MM
222
SYN-CHRONOUS CC
224
ASYN-CHRONOUS RRC
225
LAYER 2
LAYER 1
226
240
241
LAYER 3
243
ASYN-CHRONOUS MM
242
ASYN-CHRONOUS CC
244
ASYN-CHRONOUS RRC
245
LAYER 2
LAYER 1
246

FIG. 5
(PRIOR ART)

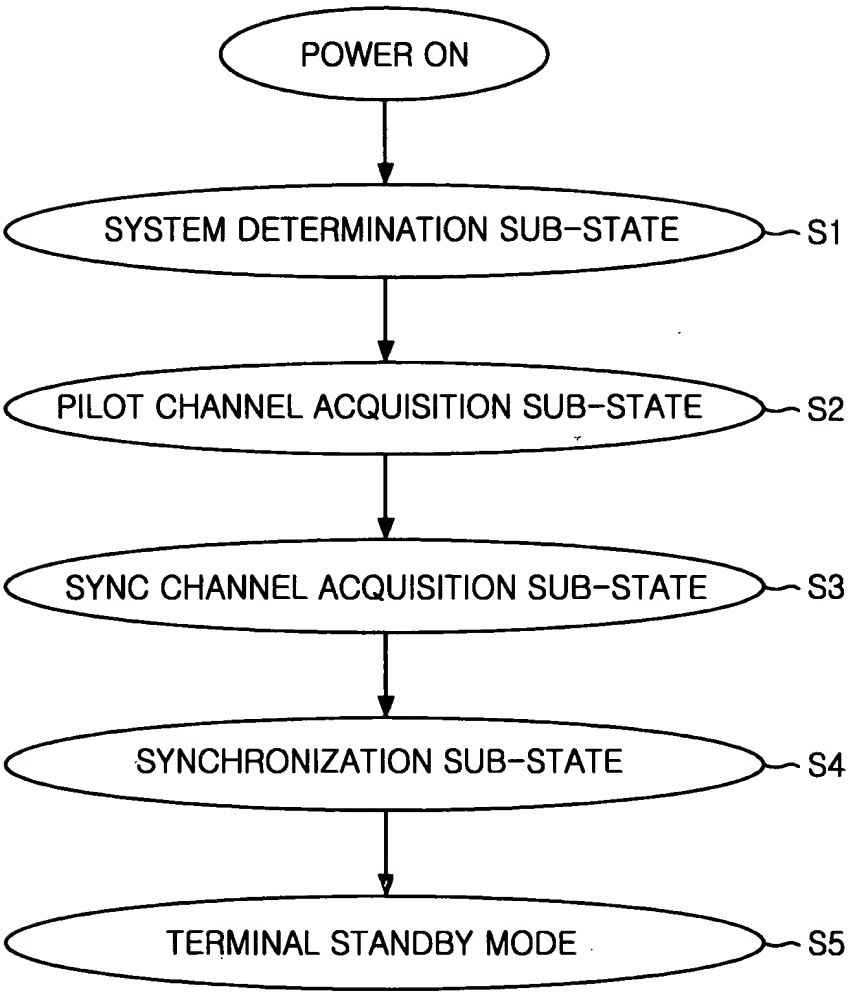


FIG. 6
(PRIOR ART)

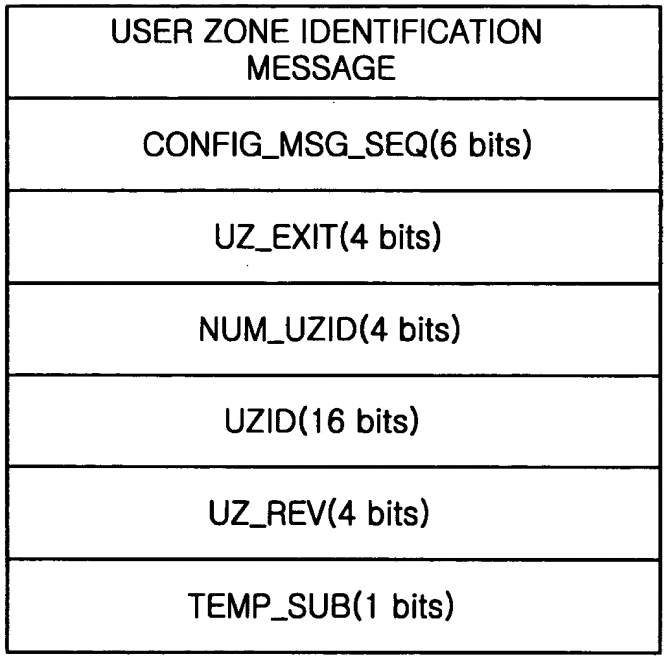


FIG. 7
(PRIOR ART)

Private neighbor List Message	
CONFIG_MSG_SEQ(6 bits)	PRI_NGHBR_PN(9 bits)
COMMON_INCL(1 bit)	BAND_CLASS(0 or 5 bits)
COMMON_BAND_CLASS(0 or 5 bits)	NGHBR_FREQ(0 or 11 bits)
COMMON_NGHBR_FREQ(0 or 11 bits)	UZID_INCL(1 bit)
SRCH_WIN_PN(4 bits)	NUM_UZID(0 or 6 bits)
NUM_PRI_NGHBR(6 bits)	UZID(0 or 16 bits)
SID(15 bits)	UZ_REV(0 or 4 bits)
NID (16 bits)	TEMP_SIB(0 or 1 bit)

FIG. 8
(PRIOR ART)

System Parameters Message		
PILOT_PN (9 bits)	FOR_NID_REG (1 bit)	PWR_REP_DELAY (5 bits)
CONFIG_MSG_SEQ (6 bits)	POWER_UP_REG (1 bit)	RESCAN (1 bit)
SID (15 bits)	PARAMETER_REG (1 bit)	T_ADD (6 bits)
NID (16 bits)	REG_PRD (7 bits)	T_DROP (6 bits)
REG_ZONE (12 bits)	BASE_LAT (22 bits)	T_COMP (4 bits)
TOTAL_ZONES (3 bits)	BASE_LONG (23 bits)	T_TDROP (4 bits)
ZONE_TIMER (3 bits)	REG_DIST (11 bits)	EXT_SYS_PARAMETER (1 bit)
MULT_SIDS (1 bit)	SRCH_WIN_A (4 bits)	EXT_NGHBR_LIST (1 bit)
MULT_NIDS (1 bit)	SRCH_WIN_N (4 bits)	GEN_NGHBR_LIST (1 bit)
BASE_ID (16 bits)	SRCH_WIN_R (4 bits)	GLOBAL_REDIRECT (1 bit)
BASE_CLASS (4 bits)	NGHBR_MAX_AGE (4 bits)	PRI_NGHBR_LIST (1 bit)
PAGE_CHAN (3 bits)	PWR_REP_THRESH (5 bits)	USER_ZONE_ID (1 bit)
MAX_SLOT_CYCLE_INDEX (3bits)	PWR_REP_FRAMES (4 bits)	EX_GLOBAL_REDIRECT (1 bit)
HOME_REG (1 bit)	PWR_THRESH_ENABLE(1 bit)	EXT_CHAN_LIST (1 bit)
FOR_SID_REG (1 bit)	PWR_PERIOD_ENABLIE (1 bit)	

FIG. 9
(PRIOR ART)

Extended Global Service Redirection Message	
PILOT_PN(9 bits)	RECORD_LEN(8 bits)
CONFIG_MSG_SEQ(6 bits)	Type-specific fieds (8 * RECORD_LEN)
REDIRECT_ACCOLC(16 bits)	EXPECTED_SID(15 bits)
RETURN_IF_FAIL(1 bit)	EXPECTED_NID (16 bits)
DELETE_TMSI(1 bit)	BAND_CLASS(5 bits)
REDIRECT_P_REV_INCL(1 bit)	NUM_CHANS(4 bits)
EXCL_P_REV_INC(0 or 1 bit)	CDMA_CHAN(11 bits)
REDIRECT_P_MIN(0 or 8 bits)	IGNORE_CDMA(1 bits)
REDIRECT_P_MAX(0 or 8 bits)	SYS_ORDERING(3 bits)
RECORED_TYPE(8 bits)	MAX_REDIRECT_DELAY(5 bits)

FIG. 10
(PRIOR ART)

Extended System Parameters Message		
PILOT_PN (9 bits)	P_REV (8 bits)	NGHBR_SET_ENTRY_INFO (1 bit
CONFIG_MSG_SEQ (6 bits)	MIN_P_REV (8 bits)	ACC_ENT_HO_ORDER (0 or 1 bit
DELETE_FOR_TMSI (1 bit)	SOFT_SLOPE (6 bits)	NGHBR_SET_ACCESS_INFO(1 bit)
USE_TIMSI (1 bit)	ADD_INTERCEPT (6 bits)	ACCESS_HO (0 or 1 bit)
PREF_MSID_TYPE (2 bits)	DROP_INTERCEPT (6 bits)	ACCESS_HO_MSG_RSP (0 or 1 bit)
MCC (10 bits)	PACKET_ZONE_ID (8 bits)	ACCESS_PROBE_HO (0 or 1 bit)
IMSI_11_12 (7 bits)	MAX_NUM_ALT_SO (3 bits)	ACC_HO_LIST_UPD (0 or 1 bit)
TMSI_ZONE_LEN (4 bits)	RESELET_INCLUDED (1 bit)	ACC_PROBE_HO_OTHER_MSG (0 or 1 bit)
TMSI_ZONE (8 * TMSI_ZONE_LEN	EC_THRESH (0 or 5 bits)	NGHBR_SET_SIZE (0 or 6 bits)
BCAST_INDEX (3 bits)	EX_IO_THRESH (0 or 5 bits)	MSX_NUM_PROBE_HO (0 or 3 bits)
IMSI_T_SUPPORTED (1 bit)	PILOT_REPORT (1 bit)	

FIG. 11
(PRIOR ART)

Global Service Redirection Message	
CONFIG_MSG_SEQ(6 bits)	EXPECTED_SID(15 bits)
REDIRECT_ACCOLC(16 bits)	EXPECTED_NID(16 bits)
RETURN_IF_FAIL(1 bit)	BAND_CLASS(5 bits)
DELETE_TMSI(1 bit)	NUM_CHANS(4 bits)
EXCL_P_REV_MS(1 bit)	CDMA_CHAN(11 bits)
RECORD_TYPE(8 bits)	IGNORE_CDMA(1 bits)
RECORD_LEN(8 bits)	SYS_ORDERING(3 bits)
Type-specific fields (8 * RECORD_LEN)	MAX_REDIRECT_DELAY(5 bits)

FIG. 12

USER ZONE IDENTIFICATION			
FIELD	CLASS	FIELD	CLASS
CONFIG_MSG_SEQ	Non-RRC	UZID	Non-RRC
UZ_EXIT	Non-RRC	UZ_REV	Non-RRC
NUM_UZID	Non-RRC	TEMP_SUB	Non-RRC

RRC : INFORMATION FIELD RELATED TO RADIO RESOURCE

Non-RRC : INFORMATION FIELD UNRELATED TO RADIO RESOURCE

FIG. 13

Information Element	Presence	Range	IE type and reference	Semantics description
Other information elements				
Value tag	Mandatory			
References to other system information blocks		0 .. <maxSysInfoBlockcount>		
Scheduling information	Mandatory			
User Zone identification Elements				
CONFIG_MSG_SEQ	Mandatory			
UZ_EXIT	Mandatory			
NUM_UZID	Mandatory			
UZID	Conditional			NUM_UZID occurrences
UZ_REV	Conditional			NUM_UZID occurrences
TEMP_SUB	Conditional			NUM_UZID occurrences

FIG. 14

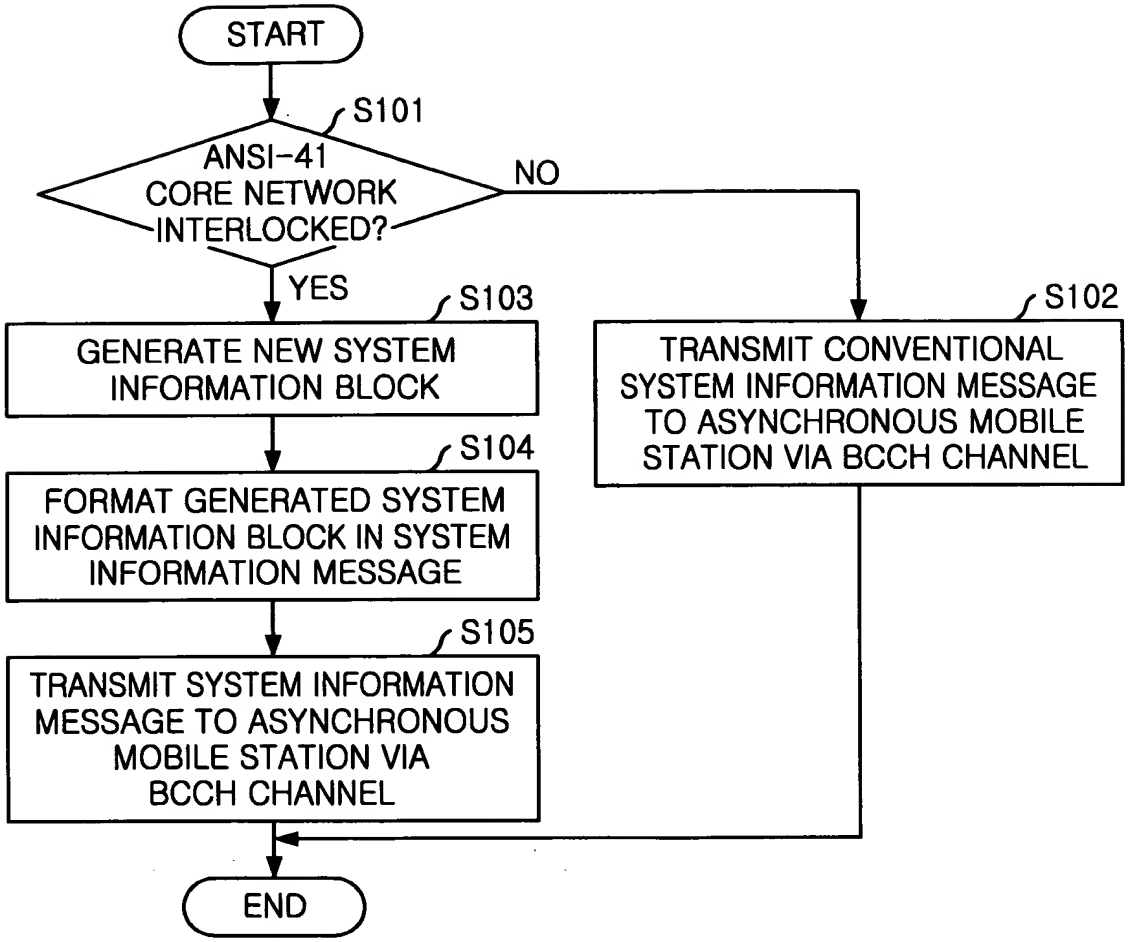

START
S101
ANSI-41 CORE NETWORK INTERLOCKED?
NO
YES
S103
GENERATE NEW SYSTEM INFORMATION BLOCK
S104
FORMAT GENERATED SYSTEM INFORMATION BLOCK IN SYSTEM INFORMATION MESSAGE
S105
TRANSMIT SYSTEM INFORMATION MESSAGE TO ASYNCHRONOUS MOBILE STATION VIA BCCH CHANNEL
S102
TRANSMIT CONVENTIONAL SYSTEM INFORMATION MESSAGE TO ASYNCHRONOUS MOBILE STATION VIA BCCH CHANNEL
END

FIG. 15

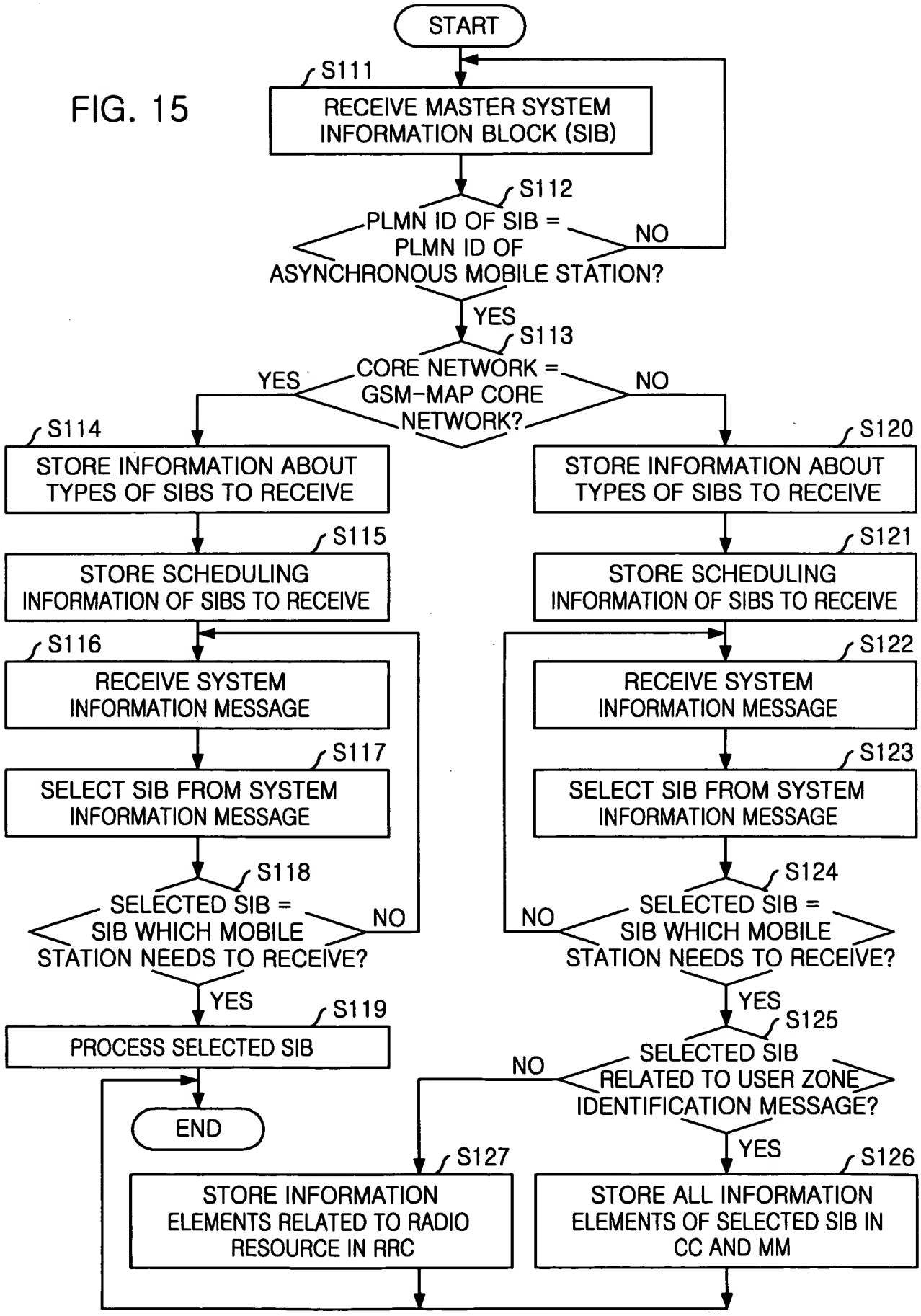

START
S111
RECEIVE MASTER SYSTEM INFORMATION BLOCK (SIB)
S112
PLMN ID OF SIB = PLMN ID OF ASYNCHRONOUS MOBILE STATION?
NO
YES
S113
CORE NETWORK = GSM-MAP CORE NETWORK?
YES
NO
S114
STORE INFORMATION ABOUT TYPES OF SIBS TO RECEIVE
S115
STORE SCHEDULING INFORMATION OF SIBS TO RECEIVE
S116
RECEIVE SYSTEM INFORMATION MESSAGE
S117
SELECT SIB FROM SYSTEM INFORMATION MESSAGE
S118
SELECTED SIB = SIB WHICH MOBILE STATION NEEDS TO RECEIVE?
NO
YES
S119
PROCESS SELECTED SIB
END
S120
STORE INFORMATION ABOUT TYPES OF SIBS TO RECEIVE
S121
STORE SCHEDULING INFORMATION OF SIBS TO RECEIVE
S122
RECEIVE SYSTEM INFORMATION MESSAGE
S123
SELECT SIB FROM SYSTEM INFORMATION MESSAGE
S124
SELECTED SIB = SIB WHICH MOBILE STATION NEEDS TO RECEIVE?
NO
YES
S125
SELECTED SIB RELATED TO USER ZONE IDENTIFICATION MESSAGE?
NO
YES
S127
STORE INFORMATION ELEMENTS RELATED TO RADIO RESOURCE IN RRC
S126
STORE ALL INFORMATION ELEMENTS OF SELECTED SIB IN CC AND MM

FIG. 16

PRIVATE NEIGHBOR MESSAGE			
FIELD	CLASS	FIELD	CLASS
CONFIG_MSG_SEQ	RCC	PRI_NGHBR_PN	RCC
COMMON_INCL	RCC	BAND_CLASS	RCC
COMMON_BAND_CLASS	RCC	NGHBR_FREQ	RCC
COMMON_NGHBR_FREQ	RCC	UZIP_INCL	Non-RRC
SRCH_WIN_PN	RCC	NUM_UZID	Non-RRC
NUM_PN_NGHBR	RCC	UZID	Non-RRC
SID	Non-RRC	UZ_REV	Non-RRC
NID	Non-RRC	TEMP_SUB	Non-RRC

RRC : INFORMATION FIELD RELATED TO RADIO RESOURCE

Non-RRC : INFORMATION FIELD UNRELATED TO RADIO RESOURCE

FIG. 17

Information Element	Presence	Range	IE type and reference	Semantics description
Other information elements				
Value tag	Mandatory			
References to other system information blocks		0 .. <maxSysInfoBlockcount>		
Scheduling information	Mandatory			
Private Neighbour List Elements				
CONFIG_MSG_SEQ	Mandatory			
SID	Mandatory			
NID	Mandatory			
UZID_INCL	Mandatory			
NUM_UZID	Mandatory			
UZID	Conditional			NUM_UZID occurrences
UZ_REV	Conditional			NUM_UZID occurrences
TEMP_SUB	Conditional			NUM_UZID occurrences

FIG. 18

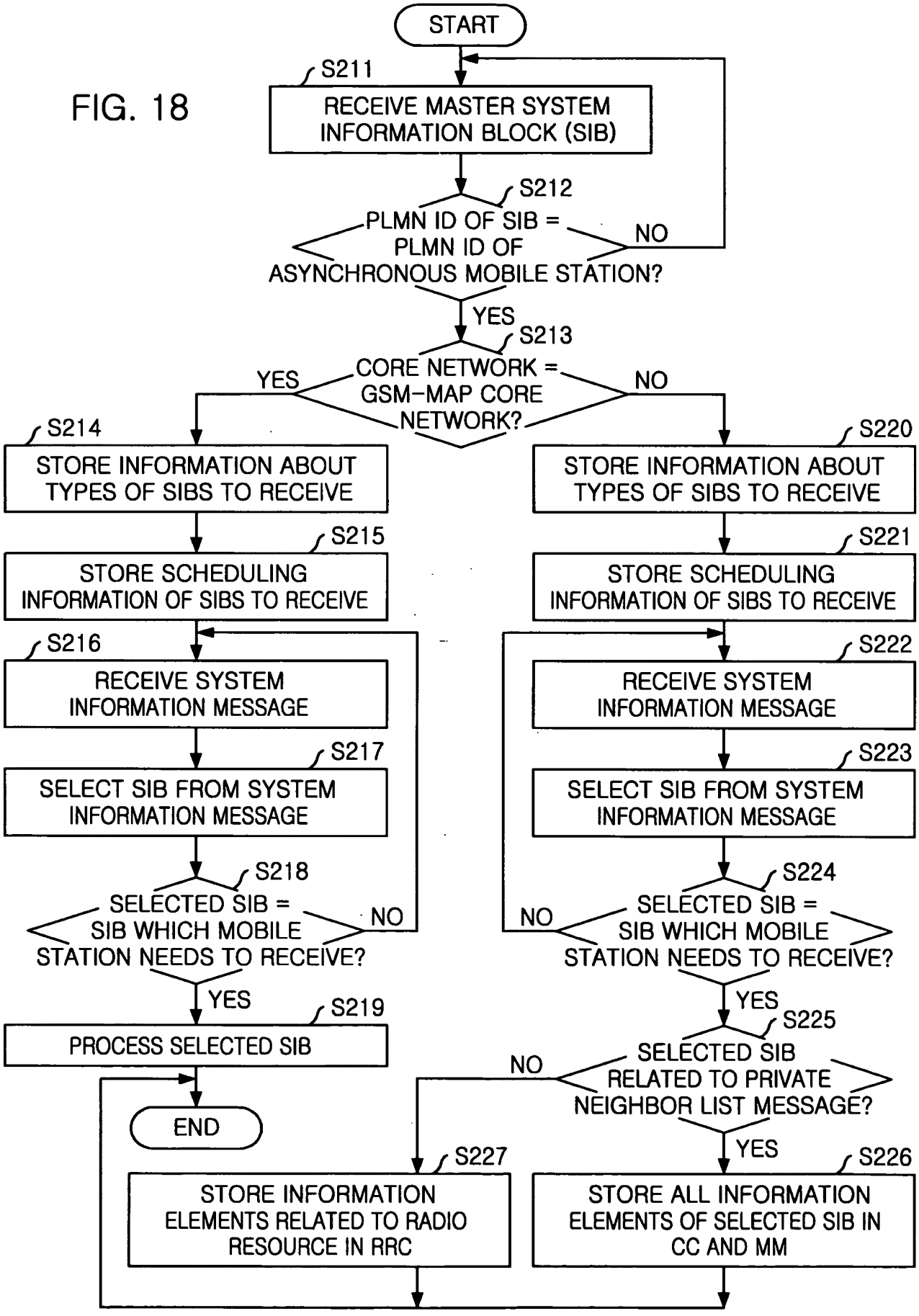

START
S211
RECEIVE MASTER SYSTEM INFORMATION BLOCK (SIB)
S212
PLMN ID OF SIB = PLMN ID OF ASYNCHRONOUS MOBILE STATION?
NO
YES
S213
CORE NETWORK = GSM-MAP CORE NETWORK?
YES
NO
S214
STORE INFORMATION ABOUT TYPES OF SIBS TO RECEIVE
S215
STORE SCHEDULING INFORMATION OF SIBS TO RECEIVE
S216
RECEIVE SYSTEM INFORMATION MESSAGE
S217
SELECT SIB FROM SYSTEM INFORMATION MESSAGE
S218
SELECTED SIB = SIB WHICH MOBILE STATION NEEDS TO RECEIVE?
NO
YES
S219
PROCESS SELECTED SIB
END
S220
STORE INFORMATION ABOUT TYPES OF SIBS TO RECEIVE
S221
STORE SCHEDULING INFORMATION OF SIBS TO RECEIVE
S222
RECEIVE SYSTEM INFORMATION MESSAGE
S223
SELECT SIB FROM SYSTEM INFORMATION MESSAGE
S224
SELECTED SIB = SIB WHICH MOBILE STATION NEEDS TO RECEIVE?
NO
YES
S225
SELECTED SIB RELATED TO PRIVATE NEIGHBOR LIST MESSAGE?
NO
YES
S226
STORE ALL INFORMATION ELEMENTS OF SELECTED SIB IN CC AND MM
S227
STORE INFORMATION ELEMENTS RELATED TO RADIO RESOURCE IN RRC

FIG. 19

<System Parameters Message>

FIELD	CLASS	FIELD	CLASS
PILOT_PN	RRC	REG_DIST	Non-RRC
CONFIG_MSG_SEQ	Non-RRC	SRCH_WIN_A	RRC
SID	Non-RRC	SRCH_WIN_N	RRC
NID	Non-RRC	SRCH_WIN_R	RRC
REG_ZONE	Non-RRC	NGHBR_MAX_AGE	RRC
TOTAL_ZONES	Non-RRC	PWR_REP_THRESH	RRC
ZONE_TIMER	Non-RRC	PWR_REP_FRAMES	RRC
MULT_SIDS	Non-RRC	PWR_THRESH_ENABLE	RRC
MULT_NIDS	Non-RRC	PWR_PERIOD_ENABLE	RRC
BASE_ID	Non-RRC	PWR_REP_DEALAY	RRC
BASE_CLASS	Non-RRC	RESCAN	Non-RRC
PAGE_CHAN	RRC	T_ADD	RRC
MAX_SLOT_CYCLE_INDEX	RRC	T_DROP	RRC
HOME_REG	Non-RRC	T_COMP	RRC
FOR_SID_REG	Non-RRC	T_TDROP	RRC
FOR_NID_REG	Non-RRC	EXIT_SYS_PARAMETERS	Non-RRC
POWER_UP_REG	Non-RRC	EXT_NGHBR_LIST	RRC
POWER_DOWN_REG	Non-RRC	GEN_NGHBR_LIST	RRC
PARAMETER_REG	Non-RRC	PRENGHBR_LIST	Non-RRC
REG_PRD	Non-RRC	USER_ZONE_ID	Non-RRC
BASE_LAT	Non-RRC	EXT_GLOBAL_REIDRECT	Non-RRC
BAST_LONG	Non-RRC	EXT_CHAN_LIST	RRC
GLOBAL_REDIRECT	Non-RRC		

RRC : INFORMATION FIELD RELATED TO RADIO RESOURCE

Non-RRC : INFORMATION FIELD UNRELATED TO RADIO RESOURCE

FIG. 20

Information Element	Presence	Range	IE type and reference	Semantics description
Other Information elements				
Value tag	Mandatory			
References to other system information blocks		0 .. <maxSysInfoBlockcount>		
Scheduling information	Mandatory			
System Parameters Message Elements				
CONFIG_MSG_SEQ	Mandatory			
SID	Mandatory			
NID	Mandatory			
REG_ZONE	Mandatory			
TOTAL_ZONES	Mandatory			
ZONE_TIMER	Mandatory			
MULT_SIDS	Mandatory			
MULT_NIDS	Mandatory			
BASE_ID	Mandatory			
BASE_CLASS	Mandatory			
HOME_REG	Mandatory			
FOR_SID_REG	Mandatory			
FOR_NID_REG	Mandatory			
POWER_UP_REG	Mandatory			
POWER_DOWN_REG	Mandatory			
PARAMETER_REG	Mandatory			
REG_PRD	Mandatory			
BAST_LAT	Mandatory			
BASE_LONG	Mandatory			
RESCAN	Mandatory			
EXT_SYS_PARAMETER	Mandatory			
GLOBAL_REDIRECT	Mandatory			
PRI_NGHBR_LIST	Mandatory			
USER_ZONE_ID	Mandatory			

FIG. 21

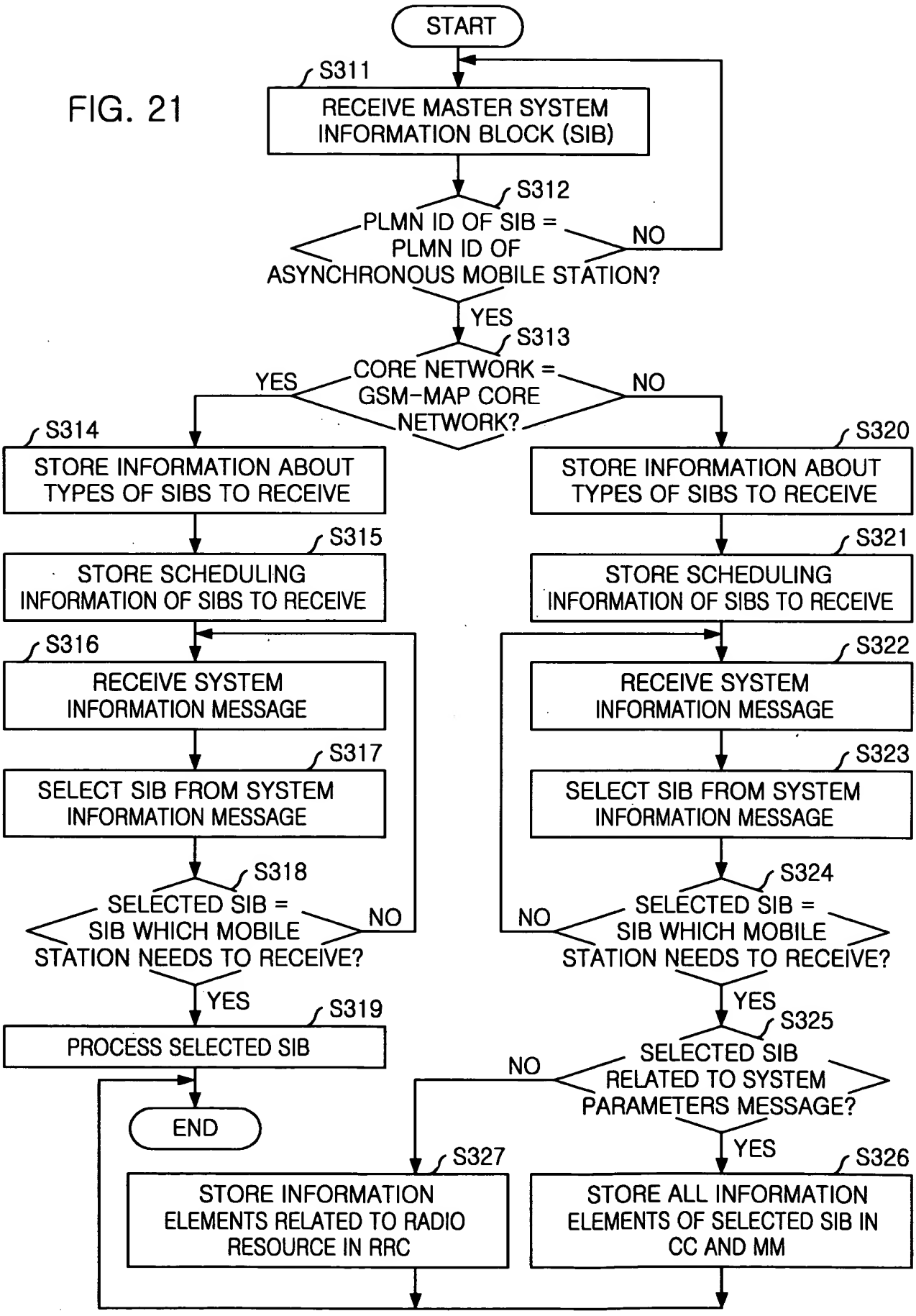

START
S311
RECEIVE MASTER SYSTEM INFORMATION BLOCK (SIB)
S312
PLMN ID OF SIB = PLMN ID OF ASYNCHRONOUS MOBILE STATION?
NO
YES
S313
CORE NETWORK = GSM-MAP CORE NETWORK?
YES
NO
S314
STORE INFORMATION ABOUT TYPES OF SIBS TO RECEIVE
S315
STORE SCHEDULING INFORMATION OF SIBS TO RECEIVE
S316
RECEIVE SYSTEM INFORMATION MESSAGE
S317
SELECT SIB FROM SYSTEM INFORMATION MESSAGE
S318
SELECTED SIB = SIB WHICH MOBILE STATION NEEDS TO RECEIVE?
NO
YES
S319
PROCESS SELECTED SIB
END
S320
STORE INFORMATION ABOUT TYPES OF SIBS TO RECEIVE
S321
STORE SCHEDULING INFORMATION OF SIBS TO RECEIVE
S322
RECEIVE SYSTEM INFORMATION MESSAGE
S323
SELECT SIB FROM SYSTEM INFORMATION MESSAGE
S324
SELECTED SIB = SIB WHICH MOBILE STATION NEEDS TO RECEIVE?
NO
YES
S325
SELECTED SIB RELATED TO SYSTEM PARAMETERS MESSAGE?
NO
YES
S326
STORE ALL INFORMATION ELEMENTS OF SELECTED SIB IN CC AND MM
S327
STORE INFORMATION ELEMENTS RELATED TO RADIO RESOURCE IN RRC

FIG. 22

Extended Global Service Redirection Message			
FIELD	CLASS	FIELD	CLASS
PILOT_PN	RRC	RECORD_LEN	Non-RRC
CONFIG_MSG_SEQ	Non-RRC	TYPE-SPECIFIC FIEDS	Non-RRC
REDIRECT_ACCOLC	Non-RRC	EXPECTED_SID	Non-RRC
RETURN_IF_FAIL	Non-RRC	EXPECTED_NID	Non-RRC
DELETE_TMSI	Non-RRC	BAND_CLASS	RRC
REDIRECT_P_REV_INCL	Non-RRC	NUM_CHANS	RRC
EXCL P_REV_IND	Non-RRC	CDMA_CHAN	RRC
REDIRECT_P_MIN	Non-RRC	IGNORE_CDMA	Non-RRC
REDIRECT_P_MAX	Non-RRC	SYS_ORDERING	Non-RRC
RECORED_TYPE	Non-RRC	MAS_REDIRECT_DELAY	Non-RRC

RRC : INFORMATION FIELD RELATED TO RADIO RESOURCE

Non-RRC : INFORMATION FIELD UNRELATED TO RADIO RESOURCE

FIG. 23

Information Element	Presence	Range	IE type and reference	Semantics description
Other information elements				
Value tag	M			
References to other system information blocks		0 .. <maxSysInfoBlockcount>		
Scheduling information	M			
Extended Global Service Redirection Elements				
CONFIG_MSG_SEQ	M			
REDIRECT_ACCOLC	M			
RETURN_IF_FAIL	M			
DELETE_TMSI	M			
REDIRECT_P_REV_INCL	M			
EXCL_P_REV_INC	M			
REDIRECT_P_MIN	M			
REDIRECT_P_MAX	M			
RECORD_TYPE	M			
RECORE_LEN	M			
TYPE-SPECIFIC FIELDS	M			
EXPECTED_SID	C			RECORD_TYPE occurrences
EXPECTED_NID	C			RECORD_TYPE occurrences
IGNORE_CDMA	C			RECORD_TYPE occurrences
SYS_ORDERING	C			RECORD_TYPE occurrences
MAX_REDIRECT_DELAY	C			RECORD_TYPE occurrences

M = Mandatory C = Conditional

FIG. 24

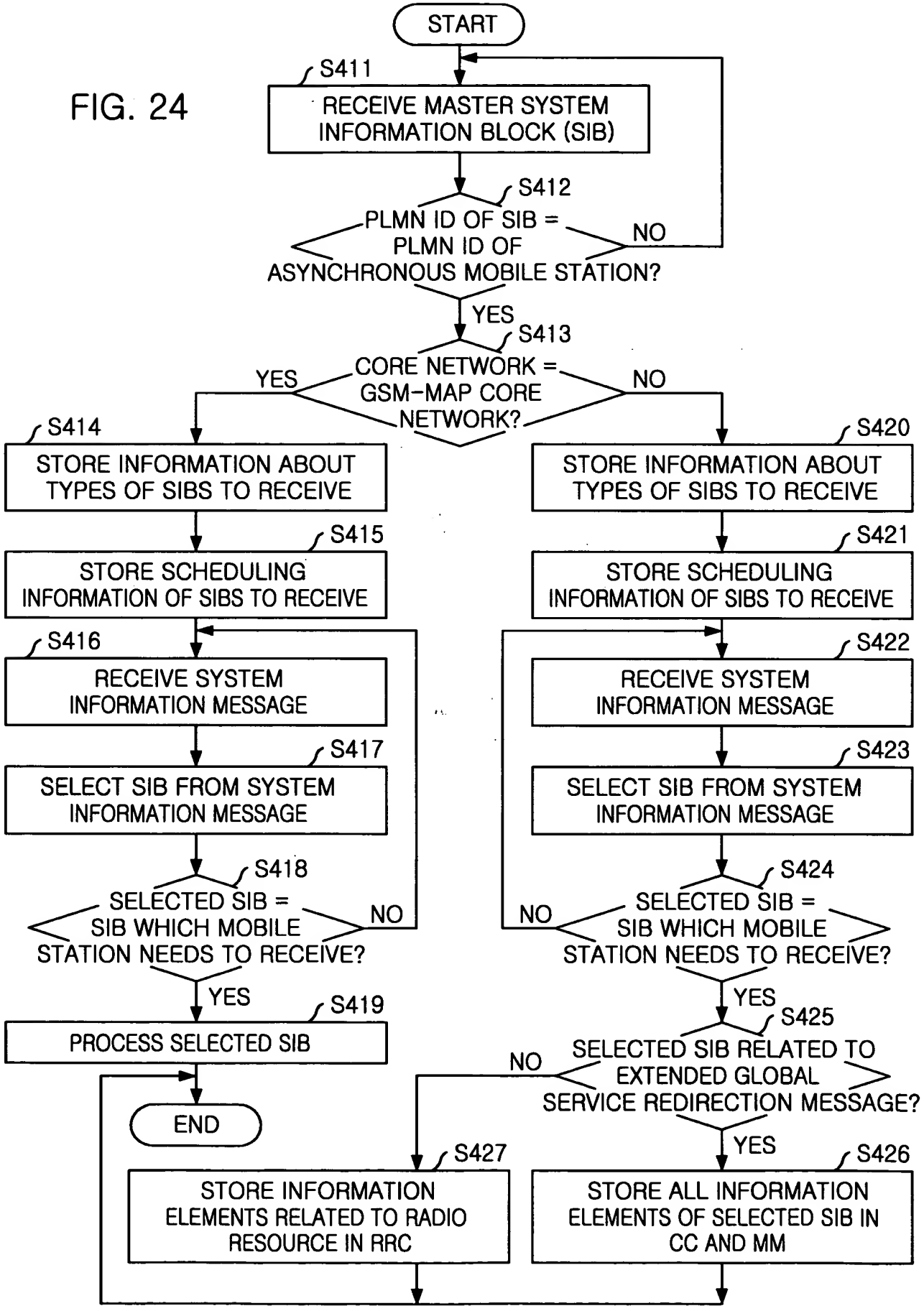

START
S411
RECEIVE MASTER SYSTEM INFORMATION BLOCK (SIB)
S412
PLMN ID OF SIB = PLMN ID OF ASYNCHRONOUS MOBILE STATION?
NO
YES
S413
CORE NETWORK = GSM-MAP CORE NETWORK?
YES
NO
S414
STORE INFORMATION ABOUT TYPES OF SIBS TO RECEIVE
S415
STORE SCHEDULING INFORMATION OF SIBS TO RECEIVE
S416
RECEIVE SYSTEM INFORMATION MESSAGE
S417
SELECT SIB FROM SYSTEM INFORMATION MESSAGE
S418
SELECTED SIB = SIB WHICH MOBILE STATION NEEDS TO RECEIVE?
NO
YES
S419
PROCESS SELECTED SIB
END
S420
STORE INFORMATION ABOUT TYPES OF SIBS TO RECEIVE
S421
STORE SCHEDULING INFORMATION OF SIBS TO RECEIVE
S422
RECEIVE SYSTEM INFORMATION MESSAGE
S423
SELECT SIB FROM SYSTEM INFORMATION MESSAGE
S424
SELECTED SIB = SIB WHICH MOBILE STATION NEEDS TO RECEIVE?
NO
YES
S425
SELECTED SIB RELATED TO EXTENDED GLOBAL SERVICE REDIRECTION MESSAGE?
NO
YES
S427
STORE INFORMATION ELEMENTS RELATED TO RADIO RESOURCE IN RRC
S426
STORE ALL INFORMATION ELEMENTS OF SELECTED SIB IN CC AND MM

FIG. 25

Extended System Parameters Message			
FIELD	CLASS	FIELD	CLASS
PILOT_PN	RRC	PACKET_ZONE_ID	Non-RRC
CONFIG_MSG_SEQ	Non-RRC	MAX_MUN_ALT_SO	Non-RRC
DELETE_FOR_TMSI	Non-RRC	RESELECT_INCLUDED	RRC
USE/TMSI	Non-RRC	EC_THRESH	RRC
PREF_MSID_TYPE	Non-RRC	EC_IO_THRESH	RRC
MCC	Non-RRC	PILOT_REPORT	RRC
IMSI_11_12	Non-RRC	NGHBR_SET_ENTRY_INFO	RRC
TMSI_ZONE_LEN	Non-RRC	ACC_ENT_HO_ORDER	RRC
TMSI_ZONE	Non-RRC	NGHBR_SET_ACCESS_INFO	RRC
BCAST_INDEX	RRC	ACCESS_HO	RRC
IMSI_T_SUPPORTED	Non-RRC	ACCESS_HO_MSG_RSP	RRC
P_REV	Non-RRC	ACCESS_PROBE_HO	RRC
MIN_P_REV	Non-RRC	ACC_HO_LIST_UPD	RRC
SOFT_SLOPE	RRC	ACC_PREVE_HO_OTHER_MSG	RRC
ADD_INTERCEPT	RRC	MAX_NUM_PROBE_HO	RRC
DROP_INTERCEPT	RRC	NGHBR_SET_SIZE	RRC

RRC : INFORMATION FIELD RELATED TO RADIO RESOURCE

Non-RRC : INFORMATION FIELD UNRELATED TO RADIO RESOURCE

FIG. 26

Information Element	Presence	Range	IE type and reference	Semantics description
Other information elements				
Value tag	Mandatory			
References to other system information blocks		0 .. <maxSysInfoBlockcount>		
Scheduling information	Mandatory			
Extended System Parameters Message Elements				
CONFIG_MSG_SEQ	Mandatory			
DELTE_FOR_TMSI	Mandatory			
USE_TMSI	Mandatory			
PREF_MSID_TYPE	Mandatory			
MCC	Mandatory			
IMSI_11_12	Mandatory			
TMSI_ZONE_LEN	Mandatory			
TMSI_ZONE	Mandatory			
IMSI_T_SUPPORTED	Mandatory			
P_REV	Mandatory			
MIN_P_REV	Mandatory			
PACKET_ZONE_ID	Mandatory			
MAX_NUM_ALT_SO	Mandatory			

FIG. 27

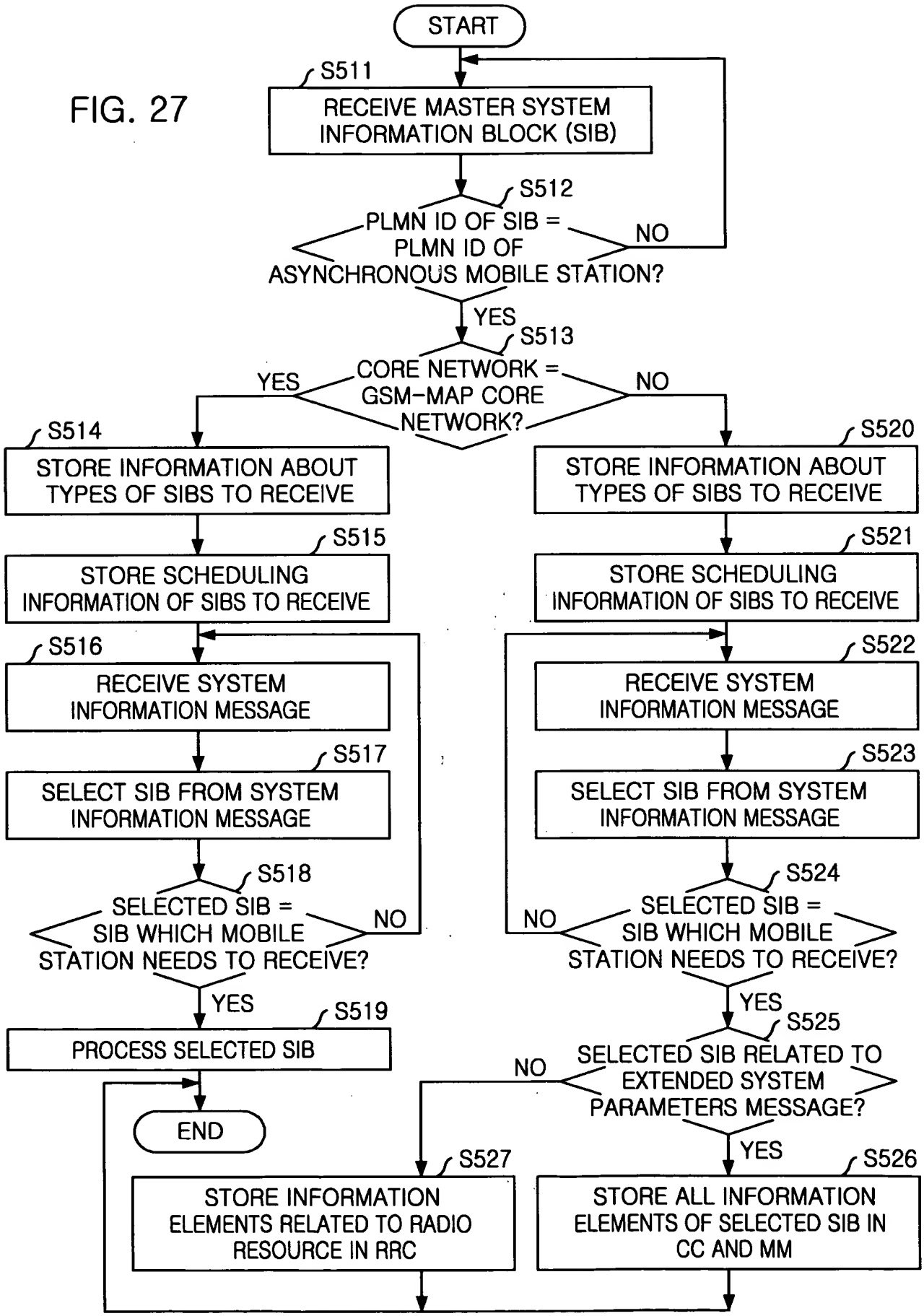

START
S511
RECEIVE MASTER SYSTEM INFORMATION BLOCK (SIB)
S512
PLMN ID OF SIB = PLMN ID OF ASYNCHRONOUS MOBILE STATION?
NO
YES
S513
CORE NETWORK = GSM-MAP CORE NETWORK?
YES
NO
S514
STORE INFORMATION ABOUT TYPES OF SIBS TO RECEIVE
S515
STORE SCHEDULING INFORMATION OF SIBS TO RECEIVE
S516
RECEIVE SYSTEM INFORMATION MESSAGE
S517
SELECT SIB FROM SYSTEM INFORMATION MESSAGE
S518
SELECTED SIB = SIB WHICH MOBILE STATION NEEDS TO RECEIVE?
NO
YES
S519
PROCESS SELECTED SIB
END
S520
STORE INFORMATION ABOUT TYPES OF SIBS TO RECEIVE
S521
STORE SCHEDULING INFORMATION OF SIBS TO RECEIVE
S522
RECEIVE SYSTEM INFORMATION MESSAGE
S523
SELECT SIB FROM SYSTEM INFORMATION MESSAGE
S524
SELECTED SIB = SIB WHICH MOBILE STATION NEEDS TO RECEIVE?
NO
YES
S525
SELECTED SIB RELATED TO EXTENDED SYSTEM PARAMETERS MESSAGE?
NO
YES
S527
STORE INFORMATION ELEMENTS RELATED TO RADIO RESOURCE IN RRC
S526
STORE ALL INFORMATION ELEMENTS OF SELECTED SIB IN CC AND MM

FIG. 28

Global Service Redirection Message			
FIELD	CLASS	FIELD	CLASS
CONFIG_MSG_SEQ	Non-RRC	EXPECTED_SID	Non-RRC
REDIREC_ACCOLC	Non-RRC	EXPETED_NID	Non-RRC
RETURN_IF_FAIL	Non-RRC	BAND_CLASS	RRC
DELTE_TMSI	Non-RRC	NUM_CHANS	RRC
EXCL_P_REV_MS	Non-RRC	CDMA_CHAN	RRC
RECORD_TYPE	Non-RRC	IGNORE-CDMA	Non-RRC
RECORD_LEN	Non-RRC	SYS_ORDERING	Non-RRC
TYPE-SPECIFIC FIELDS	Non-RRC	MAX_REDIRECT_DELAY	Non-RRC

RRC : INFORMATION FIELD RELATED TO RADIO RESOURCE

Non-RRC : INFORMATION FIELD UNRELATED TO RADIO RESOURCE

FIG. 29

Information Element	Presence	Range	IE type and reference	Semantics description
Other information elements				
Value tag	Mandatory			
References to other system information blocks		0 .. <maxSysInfoBlockcount>		
Scheduling information	Mandatory			
Global Service Redirection Elements				
CONFIG_MSG_SEQ	Mandatory			
REDIRECT_ACCOLC	Mandatory			
RETURN_IF_FAIL	Mandatory			
DELETE_TMSI	Mandatory			
EXCL_P_REV_MS	Mandatory			
RECORD_TYPE	Mandatory			
RECORE_LEN	Mandatory			
TYPE-SPECIFIC FIELDS	Mandatory			
EXPECTED_SID	Conditional			RECORD_TYPE occurrences
EXPECTED_NID	Conditional			RECORD_TYPE occurrences
IGNORE_CDMA	Conditional			RECORD_TYPE occurrences
SYS_ORDERING	Conditional			RECORD_TYPE occurrences
MAX_REDIRECT_DELAY	Conditional			RECORD_TYPE occurrences

FIG. 30

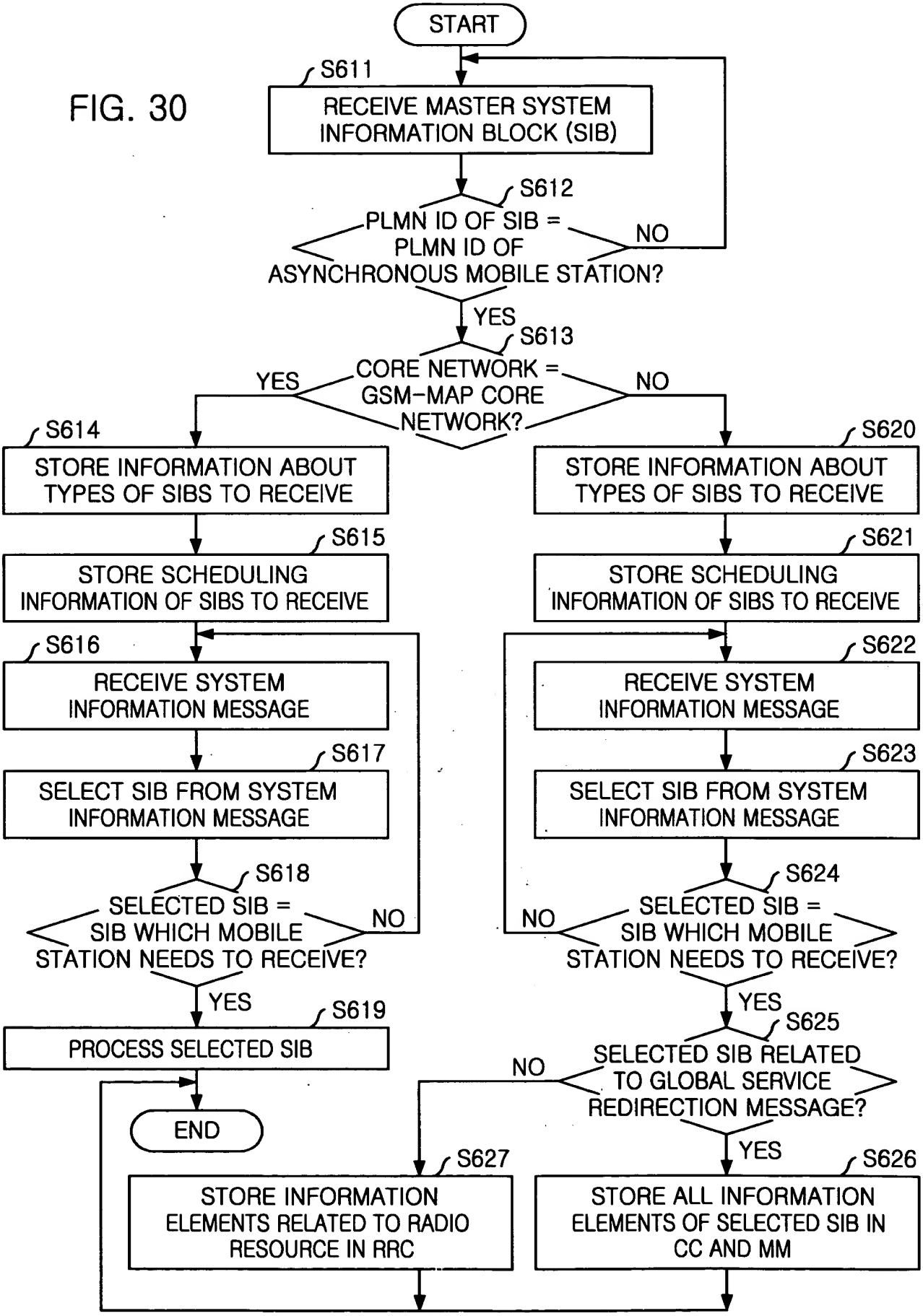

START
S611
RECEIVE MASTER SYSTEM INFORMATION BLOCK (SIB)
S612
PLMN ID OF SIB = PLMN ID OF ASYNCHRONOUS MOBILE STATION?
NO
YES
S613
CORE NETWORK = GSM-MAP CORE NETWORK?
YES
NO
S614
STORE INFORMATION ABOUT TYPES OF SIBS TO RECEIVE
S615
STORE SCHEDULING INFORMATION OF SIBS TO RECEIVE
S616
RECEIVE SYSTEM INFORMATION MESSAGE
S617
SELECT SIB FROM SYSTEM INFORMATION MESSAGE
S618
SELECTED SIB = SIB WHICH MOBILE STATION NEEDS TO RECEIVE?
NO
YES
S619
PROCESS SELECTED SIB
END
S620
STORE INFORMATION ABOUT TYPES OF SIBS TO RECEIVE
S621
STORE SCHEDULING INFORMATION OF SIBS TO RECEIVE
S622
RECEIVE SYSTEM INFORMATION MESSAGE
S623
SELECT SIB FROM SYSTEM INFORMATION MESSAGE
S624
SELECTED SIB = SIB WHICH MOBILE STATION NEEDS TO RECEIVE?
NO
YES
S625
SELECTED SIB RELATED TO GLOBAL SERVICE REDIRECTION MESSAGE?
NO
YES
S626
STORE ALL INFORMATION ELEMENTS OF SELECTED SIB IN CC AND MM
S627
STORE INFORMATION ELEMENTS RELATED TO RADIO RESOURCE IN RRC

FIG. 31A

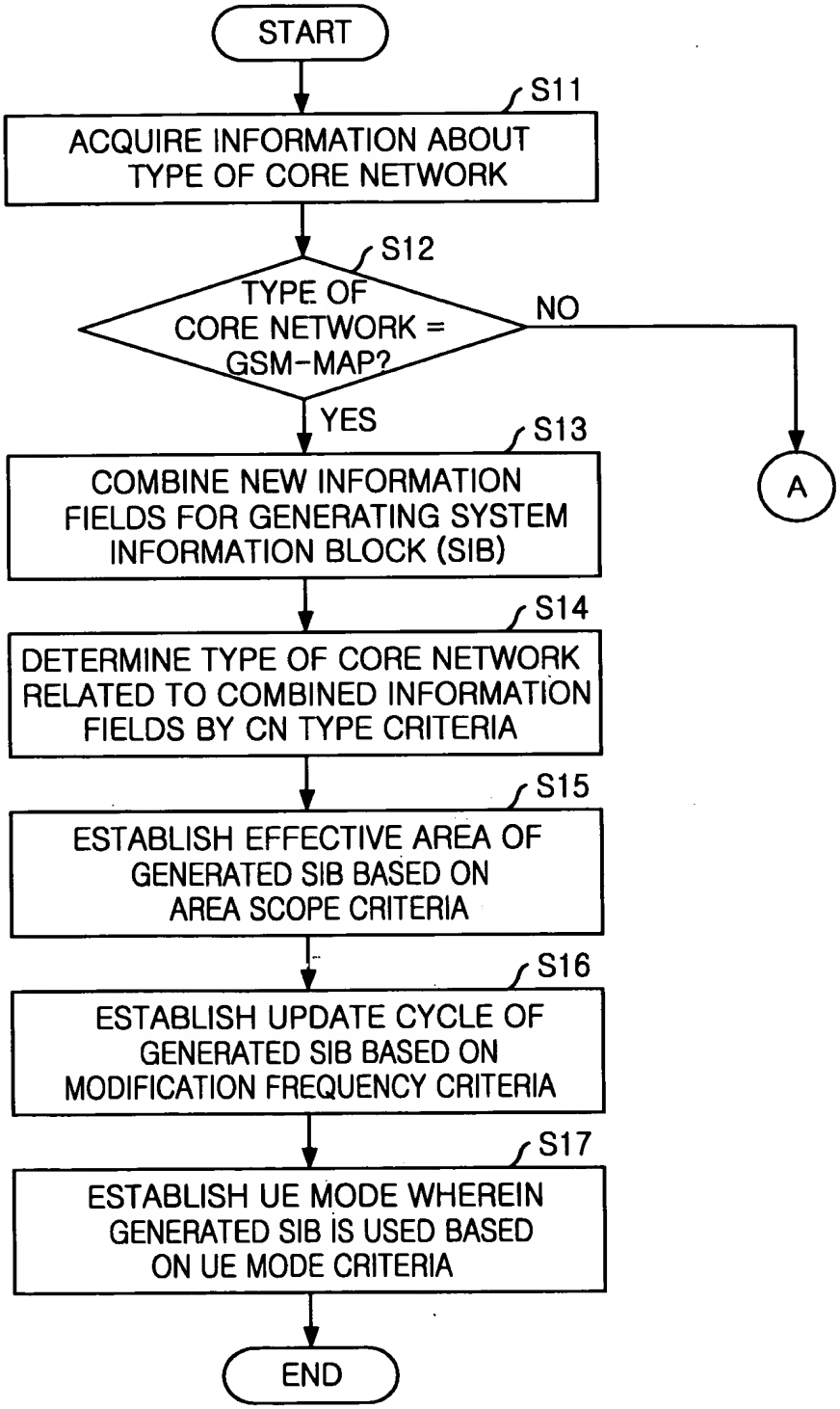
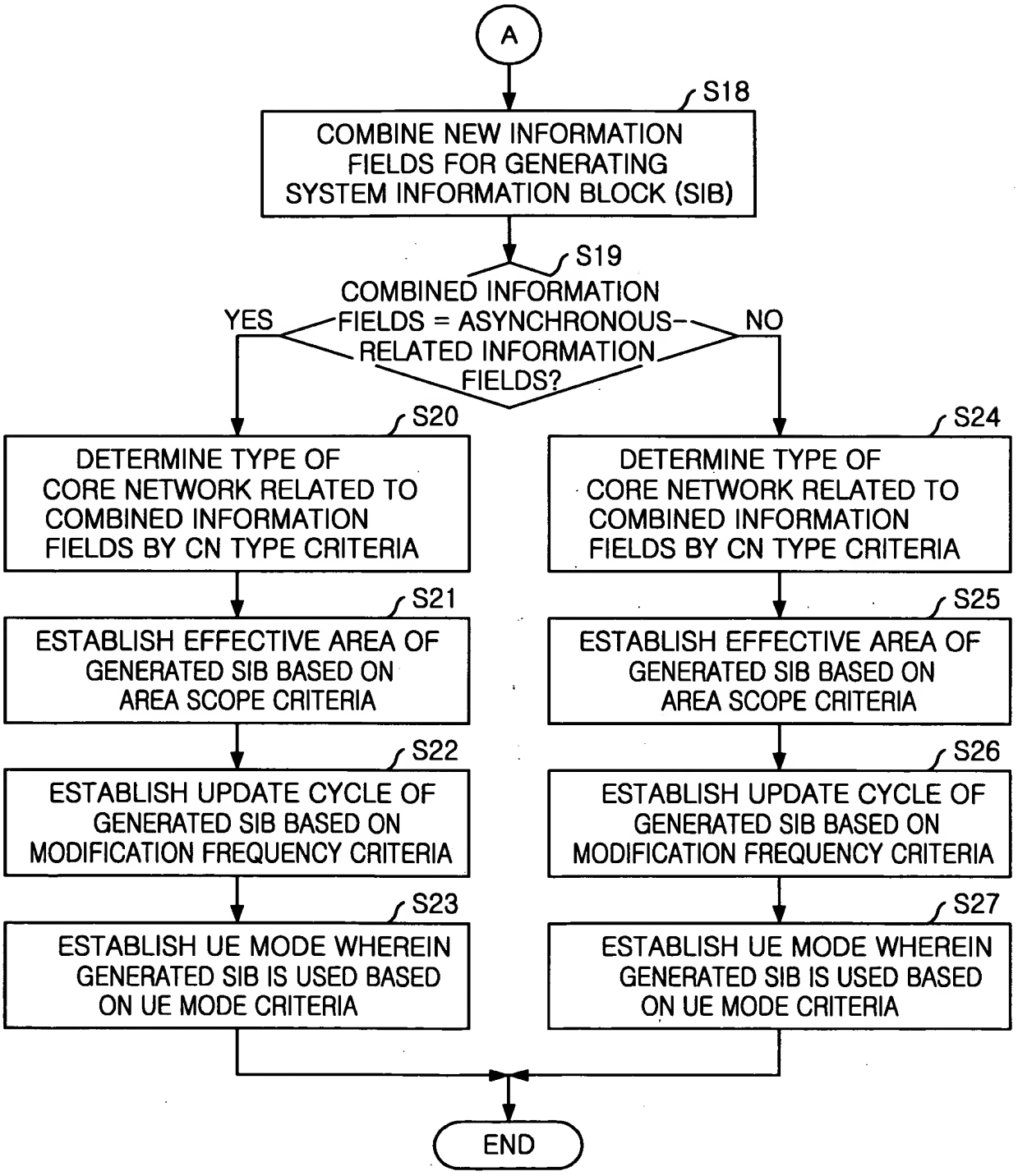

START
S11
ACQUIRE INFORMATION ABOUT TYPE OF CORE NETWORK
S12
TYPE OF CORE NETWORK = GSM-MAP?
NO
YES
A
S13
COMBINE NEW INFORMATION FIELDS FOR GENERATING SYSTEM INFORMATION BLOCK (SIB)
S14
DETERMINE TYPE OF CORE NETWORK RELATED TO COMBINED INFORMATION FIELDS BY CN TYPE CRITERIA
S15
ESTABLISH EFFECTIVE AREA OF GENERATED SIB BASED ON AREA SCOPE CRITERIA
S16
ESTABLISH UPDATE CYCLE OF GENERATED SIB BASED ON MODIFICATION FREQUENCY CRITERIA
S17
ESTABLISH UE MODE WHEREIN GENERATED SIB IS USED BASED ON UE MODE CRITERIA
END

FIG. 31B


A
S18
COMBINE NEW INFORMATION FIELDS FOR GENERATING SYSTEM INFORMATION BLOCK (SIB)
S19
COMBINED INFORMATION FIELDS = ASYNCHRONOUS-RELATED INFORMATION FIELDS?
YES
NO
S20
DETERMINE TYPE OF CORE NETWORK RELATED TO COMBINED INFORMATION FIELDS BY CN TYPE CRITERIA
S21
ESTABLISH EFFECTIVE AREA OF GENERATED SIB BASED ON AREA SCOPE CRITERIA
S22
ESTABLISH UPDATE CYCLE OF GENERATED SIB BASED ON MODIFICATION FREQUENCY CRITERIA
S23
ESTABLISH UE MODE WHEREIN GENERATED SIB IS USED BASED ON UE MODE CRITERIA
S24
DETERMINE TYPE OF CORE NETWORK RELATED TO COMBINED INFORMATION FIELDS BY CN TYPE CRITERIA
S25
ESTABLISH EFFECTIVE AREA OF GENERATED SIB BASED ON AREA SCOPE CRITERIA
S26
ESTABLISH UPDATE CYCLE OF GENERATED SIB BASED ON MODIFICATION FREQUENCY CRITERIA
S27
ESTABLISH UE MODE WHEREIN GENERATED SIB IS USED BASED ON UE MODE CRITERIA
END